

Calculations based on EPA's Comments

BFK-7.6 Calculated Number of Fish Meals
Community BFK 7.6 (114 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
bluegill	1	46	46	46
green sunfish	1	34.5	34.5	34.5
largemouth bass	0	0	0	NA
redbreast sunfish	5	35	86.7	59.4
rock bass	3	44	185	91.4

Total weight of fish greater than 30 grams 651.6 grams
 Assume 1/2 of fish is edible 325.8 grams/filet
 Fish catch rate per trip 70% fish/trip
 Assume fishes 9 months, for a total of 30 trips 6841.8 grams/year
 Assume 227 g per meal 30.14 meals/year

Factors 70% fish catch rate for BFK

EFK- 1.0 Calculated Number of Fish Meals
Community EFK 1.0 (65 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
largemouth bass	1	66.2	66.2	66.2
white crappie	1	183	183	183
bluegill	5	30.3	80	46.9
redbreast sunfish	1	112	112	112
redeer sunfish	1	36.6	36.6	36.6
warmouth	3	36.3	43.8	39.3
yellow bass	11	30.4	196	87.6
yellow perch	2	32.6	32.9	32.8

Total weight of fish greater than 30 grams 1779.6 grams
 Assume 1/2 of fish is edible 889.8 grams/filet
 Fish catch rate per trip 28% fish/trip
 Assume fishes 9 months, for a total of 30 trips 7474.32 grams/year
 Assume 227 g per meal 32.93 meals/year

Factors 28% fish catch rate for EFK

Calculations based on TDEC's Comments

BFK-7.6 Calculated Number of Fish Meals
Community BFK 7.6 (114 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
bluegill	1	46	46	46
green sunfish	1	34.5	34.5	34.5
largemouth bass	0	0	0	NA
redbreast sunfish	5	35	86.7	59.4
rock bass	3	44	185	91.4

Total weight of fish greater than 30 grams	651.6 grams
Assume 1/2 of fish is edible	325.8 grams/filet
Fish catch rate per trip	70% fish/trip
Assume fishes 9 months, for a total of 36 trips	8210.16 grams/year
Assume 227 g per meal	36.17 meals/year

EFK- 1.0 Calculated Number of Fish Meals
Community EFK 1.0 (65 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
largemouth bass	1	66.2	66.2	66.2
white crappie	1	183	183	183
bluegill	5	30.3	80	46.9
redbreast sunfish	1	112	112	112
redeer sunfish	1	36.6	36.6	36.6
warmouth	3	36.3	43.8	39.3
yellow bass	11	30.4	196	87.6
yellow perch	2	32.6	32.9	32.8

Total weight of fish greater than 30 grams	1779.6 grams
Assume 1/2 of fish is edible	889.8 grams/filet
Fish catch rate per trip	28% fish/trip
Assume fishes 9 months, for a total of 36 trips	8969.18 grams/year
Assume 227 g per meal	39.51 meals/year

BCK 0.7 Calculated Number of Fish Meals

Community BCK 0.7 (95 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
largemouth bass	1	73.1	73.1	73.1
green sunfish	3	33.2	72.1	46.5
redbreast sunfish	3	32.8	59	41.8
rock bass	4	36.7	116	77.5
warmouth	1	34.4	34.4	34.4

Total weight of fish greater than 30 grams

682.4 grams

Assume 1/2 of fish is edible

341.2 grams/filet

Fish catch rate per trip

58% fish/trip

Assume fishes 9 months, for a total of 30 trips

4401.48 grams/year

Assume 227 g per meal

19.39 meals/year

Factors the mean fish catch rate of 43% based on BCK 0.7 and BCK 3.3 only

BCK 3.3 Calculated Number of Fish Meals

Community BCK 3.3 (84 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
bluegill	2	32.7	72.5	52.6
green sunfish	8	35	55.1	39.3
redbreast sunfish	4	32.5	69	42.9
rock bass	12	34.9	176	69.9

Incorporates fish counts & species based on last 5 years of BMAP data

Total weight of fish greater than 30 grams

379.3 grams

Assume 1/2 of fish is edible

189.65 grams/filet

Fish catch rate per trip

27% fish/trip

Assume fishes 9 months, for a total of 30 trips

2446.485 grams/year

Assume 227 g per meal

10.78 meals/year

Factors the mean fish catch rate of 43% based on BCK 0.7 and BCK 3.3 only

Average BCK Fish Meals (BCK 0.7 and 3.3)

15

Represents the average fish meals for BCK 3.3

BCK 0.7 Calculated Number of Fish Meals
Community BCK 0.7 (95 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
largemouth bass	1	73.1	73.1	73.1
green sunfish	3	33.2	72.1	46.5
redbreast sunfish	3	32.8	59	41.8
rock bass	4	36.7	116	77.5
warmouth	1	34.4	34.4	34.4

Total weight of fish greater than 30 grams	682.4 grams
Assume 1/2 of fish is edible	341.2 grams/filet
Fish catch rate per trip	58% fish/trip
Assume fishes 9 months, for a total of 36 trips	
	7165.20 grams/year
Assume 227 g per meal	31.56 meals/year

BCK 3.3 Calculated Number of Fish Meals
Community BCK 3.3 (84 meter reach,
gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
green sunfish	1	38.1	38.1	38.1

Total weight of fish greater than 30 grams	38.1 grams	
Assume 1/2 of fish is edible	19.05 grams/filet	
Fish catch rate per trip	700% fish/trip	See EPA's calculated fish catch rat
Assume fishes 9 months, for a total of 36 trips		
	4800.60 grams/year	
Assume 227 g per meal	21.15 meals/year	

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